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A1 8 a plurality of line cards coupled to the plurality of switch cards, the plurality of line cards  
9 to interface the plurality of switch cards with traffic coming in and out of a plurality of physical  
ports.

24. (Amended) An apparatus for cell replication comprising:  
means for directing data traffic; and  
means for controlling the means for directing, the means for controlling coupled to the  
means for directing comprising a plurality of signal inputs and a plurality of signal outputs and  
configured to provide control signals to the means for directing, the plurality of signal inputs  
being requests for data transmission through the means for directing, and the plurality of signal  
outputs being grants to the requests, data for which a request for transmission is granted by the  
means for controlling is replicated and processed through the means for directing to a destination  
slot and to a backup destination slot according to software configurable mapping information.

33. (New) A machine-readable medium that provides instructions, which when  
executed by a machine, cause said machine to perform operations comprising:  
receiving a request for data transmission through a crossbar and a corresponding mapping  
information, the mapping information received by the crossbar and received from one of a  
plurality of software configurable slot remap registers, the mapping information indicative of a  
destination slot and a backup destination slot to which the data is to be transmitted; and  
replicating the data by transmitting the data to the destination slot and to the backup  
destination slot when the data arrives at an input slot of the crossbar.

34. (New) The machine readable medium of claim 33 further comprising determining  
whether the destination slot and the backup destination slot to grant the request are available, the  
availability determined by a scheduler.

35. (New) The machine readable medium of claim 34 further comprising transmitting  
a control signal to the crossbar once availability is confirmed, the control signal transmitted by  
the scheduler and indicative of the availability of the destination slot and the backup destination  
slot.

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- 1 36. (New) The machine readable medium of claim 35 further comprising sending an
  - 2 acknowledgment back to a source of the request.
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